

6JC6

Sharp-Cutoff Pentode

9-PIN MINIATURE TYPE
FRAME-GRID CONSTRUCTION

For Use as an IF-Amplifier Tube in TV
Receivers. No External Shield Required.

GENERAL DATA

Electrical:

Heater Characteristics and Ratings:

Voltage (AC or DC) 6.3 ± 0.6 volts
Current at heater volts = 6.3 0.300 amp

Peak heater-cathode voltage:

Heater negative with
respect to cathode 200 max. volts

Heater positive with
respect to cathode 200^a max. volts

Direct Interelectrode Capacitances:^b

Grid No.1 to plate 0.019 max. pf

Grid No.1 to cathode, grid No.3 &
internal shield, grid No.2,
and heater 8.2 pf

Plate to cathode, grid No.3 &
internal shield, grid No.2,
and heater 3.0 pf

Characteristics, Class A₁ Amplifier:

Plate Supply Voltage 125 volts

Grid No.3 *Connected to cathode at socket*

Grid-No.2 Supply Voltage 125 volts

Cathode Resistor 56 ohms

Plate Resistance (Approx.) 0.18 megohm

Transconductance 15000 μ mhos

Plate Current 13 ma

Grid-No.2 Current 3.2 ma

Grid-No.1 Voltage (Approx.) for
plate μ a = 100 -3 volts

Mechanical:

Operating Position Any

Type of Cathode Coated Unipotential

Maximum Overall Length 2-3/16"

Maximum Seated Length 1-15/16"

Length, Base Seat to Bulb Top (Excluding tip) 1-9/16" \pm 3/32"

Diameter 0.750" to 0.875"

Dimensional Outline See *General Section*

Bulb T6-1/2

Base Small-Button Noval 9-Pin (JEDEC No.E9-1)



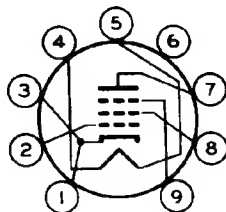
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Harrison, N. J.

DATA I
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Basing Designation for BOTTOM VIEW. 9PM

- Pin 1 - Cathode
Pin 2 - Grid No.1
Pin 3 - Cathode
Pin 4 - Heater
Pin 5 - Heater
Pin 6 - No Internal
 Connection



- Pin 7 - Plate
Pin 8 - Grid No.2
Pin 9 - Grid No.3,
Internal
Shield

AMPLIFIER — CLASS A₁

Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE 330 max. volts

GRID-No.3 (SUPPRESSOR-GRID) VOLTAGE:

Positive value. 0 max. volts

GRID-No.2 (SCREEN-GRID) SUPPLY VOLTAGE. . . 330 max. volts

GRID-No.2 VOLTAGE See *Grid-No.2 Input Rating Chart*
at front of Receiving Tube Section

GRID-No.1 (CONTROL-GRID) VOLTAGE:

Positive-bias value 0 max. volts

GRID-No.2 INPUT:

For grid-No.2 voltages up to

165 volts 0.6 max. watt

For grid-No.2 voltages between

165 and 330 volts See *Grid-No.2 Input Rating Chart*
at front of Receiving Tube Section

PLATE DISSIPATION 2.5 max. watts

Maximum Circuit Values:

Grid-No.1-Circuit Resistance:

For fixed-bias operation, 0.25 max. megohm

For cathode-bias operation. 1 max. megohm

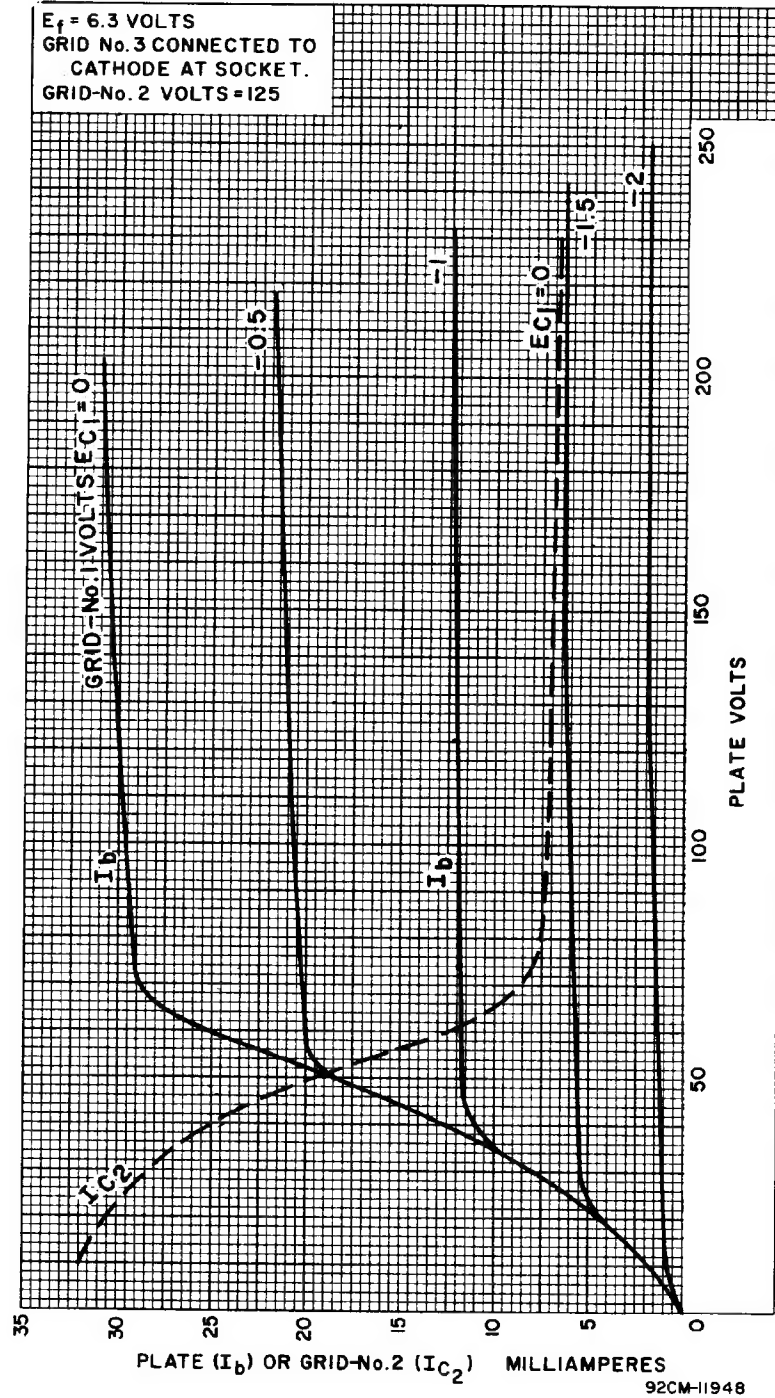
a The dc component must not exceed 100 volts.

b without external shield.



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AVERAGE CHARACTERISTICS

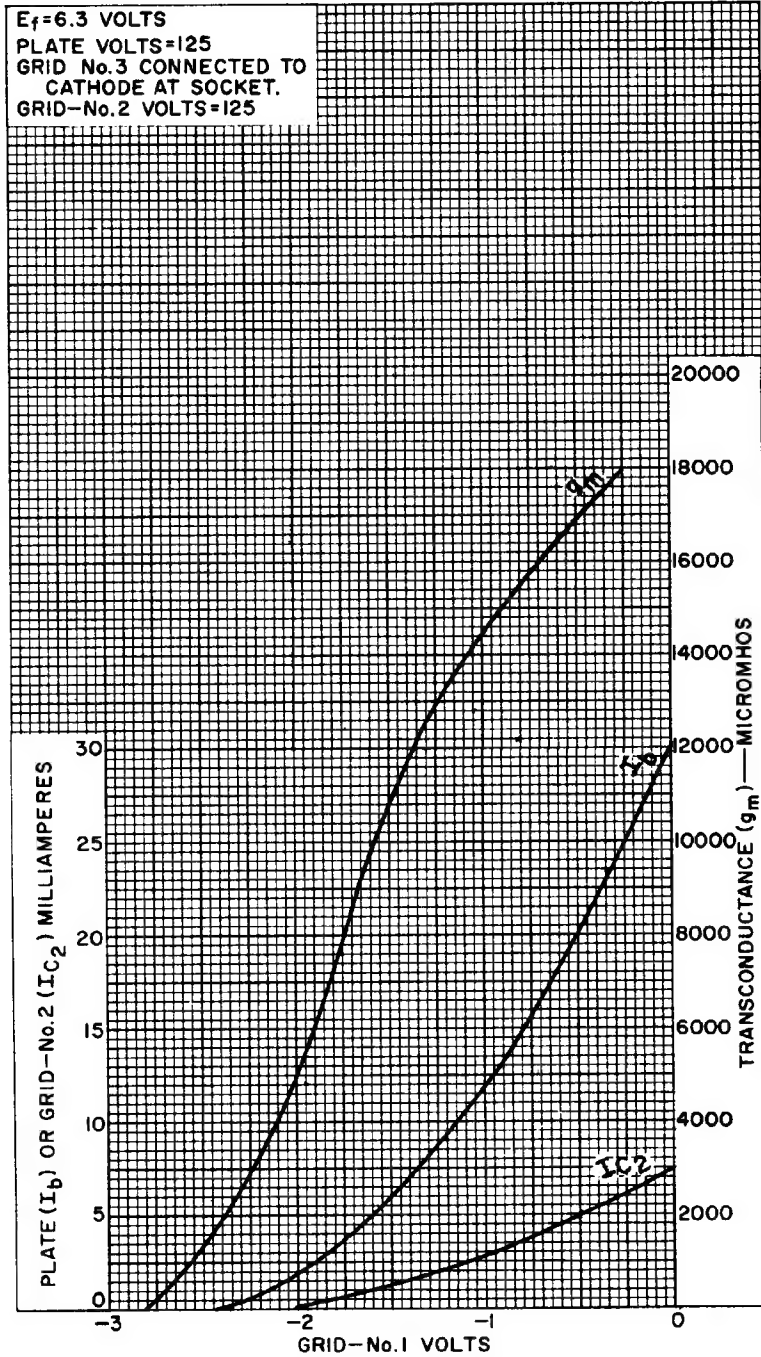


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AVERAGE CHARACTERISTICS



92CM-11949

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